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GÉOLOGIE ET PALÉONTOLOGIE

39

DU

BASSIN HOUILLER DU GARD

PAR

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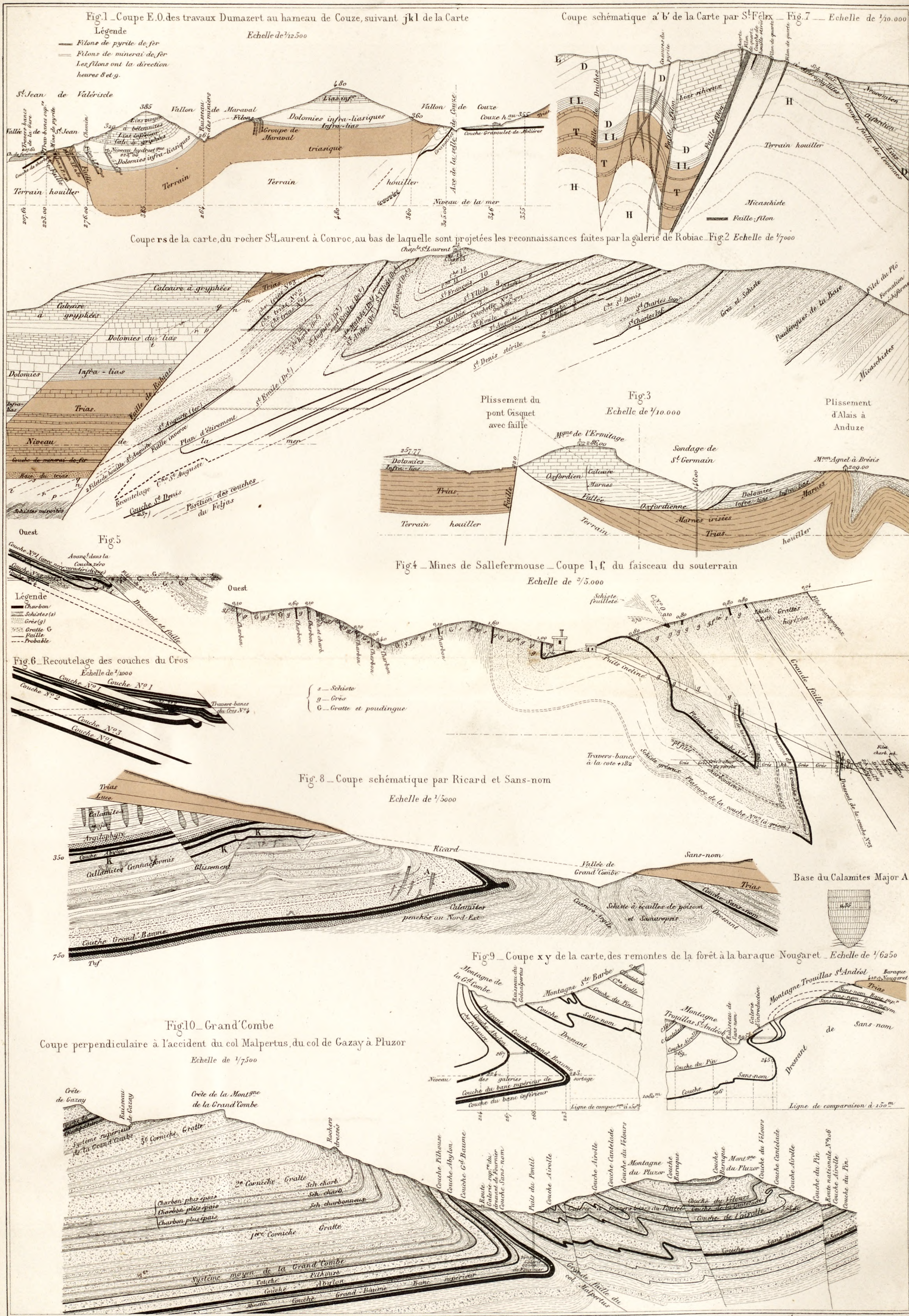
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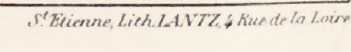


Fig. 1 - Couches de Pégère quartier des Pilhes

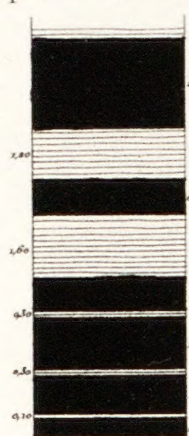


Fig. 2 - Couches de Combelongue Couche inférieure N° 4

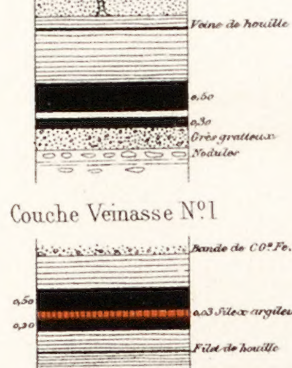


Fig. 9 - Couches de St Jean

Couche Michel dans la tranchée du chemin de fer

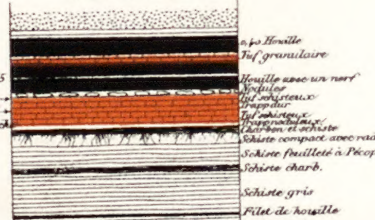
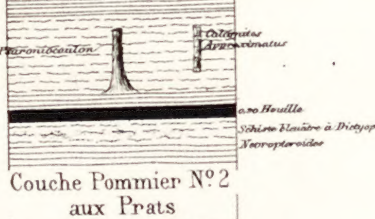
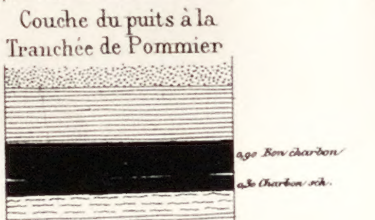
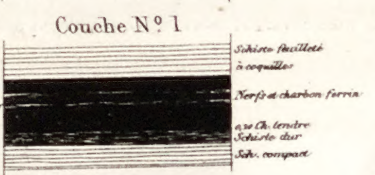
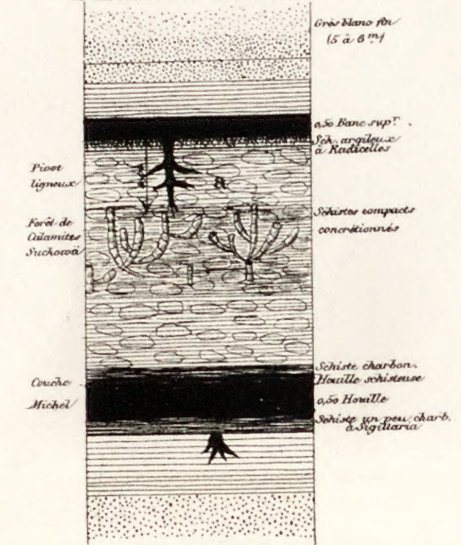


Fig. 4 - Couche N° 1 de Gagnières

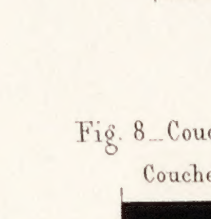
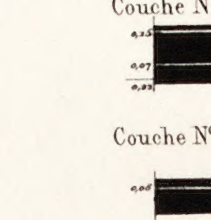
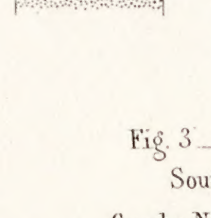
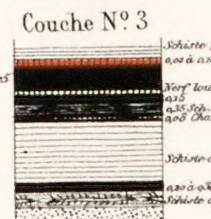
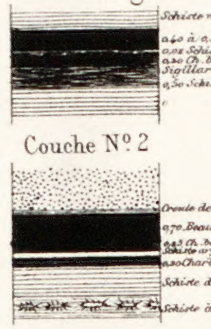
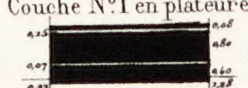


Fig. 3 - Couches du Souterrain

Couche N° 1 en plateau

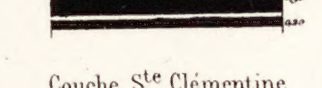


Couche N° 2 en dressant



Fig. 8 - Couches de Molières

Couche St Alfred



Couche St Clémentine



Couche St Louis



Couche St Jean

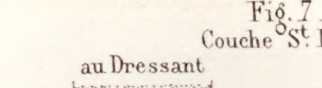


Fig. 16 bis - Coupe générale du gisement de fer carbonaté spathique de Palmesalade

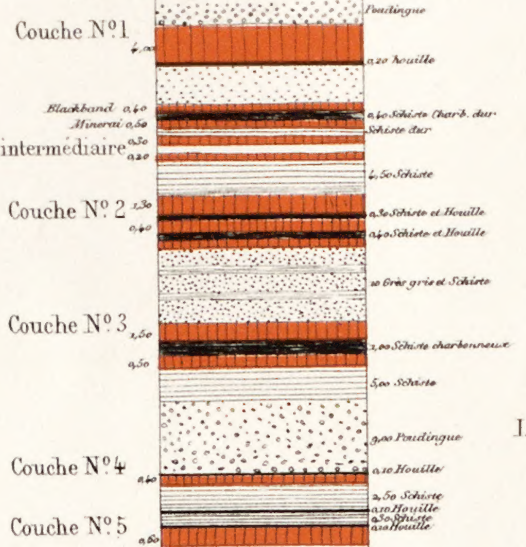
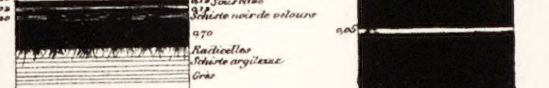
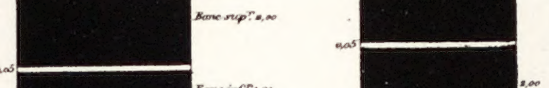


Fig. 14 - Couches de St Barbe et de Laval

Couche Velours à St Barbe



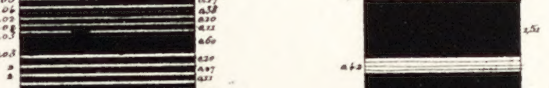
Couche Sans-Nom à St Barbe



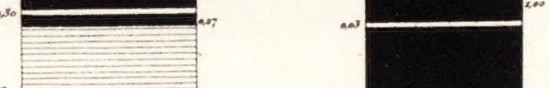
Renflement de la couche Sans-Nom à Laval



Couche N° 1



Couche N° 2



Couche N° 3



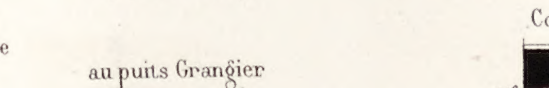
Couche N° 4



Couche N° 5



Couche N° 6



Couche N° 7



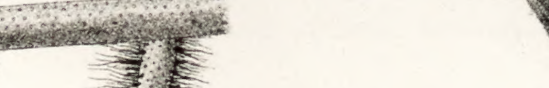
Couche N° 8



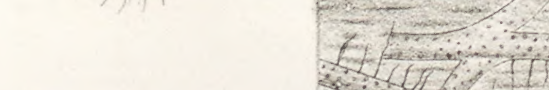
Couche N° 9



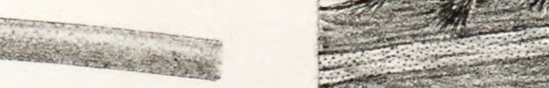
Couche N° 10



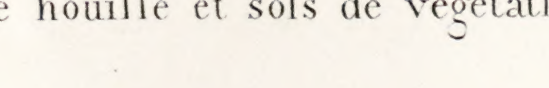
Couche N° 11



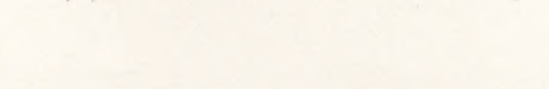
Couche N° 12



Couche N° 13



Couche N° 14



Couche N° 15

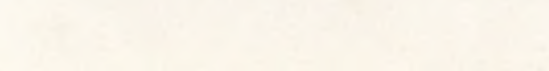


Fig. 16 - Palmesalade - Minerai spathique

Coupe du travers - bancs de la cheminée N° 3 en dessus du niveau St Paul



Fig. 12 - Couche de Rochebelle N° 5

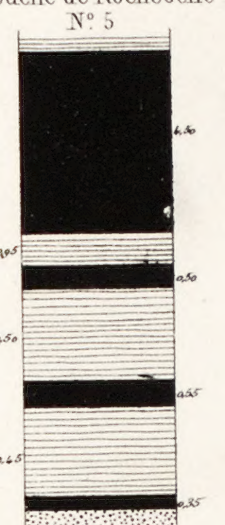


Fig. 10 - Couches de Fontanes

Couche N° 4



Couche N° 1



Couche du fond du puits de Fontanes

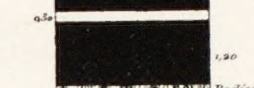
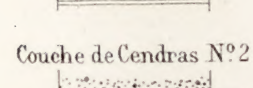


Fig. 11 - Couches de Cendras

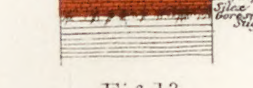
Couche N° 1



Couche de Cendras N° 2



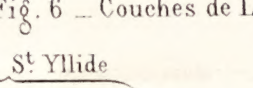
Couche d'Olympie au N.E.



Couche N° 1



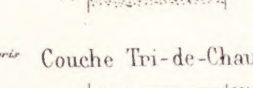
Couche N° 2



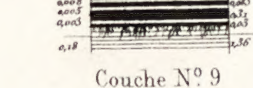
Couche N° 3



Couche N° 4



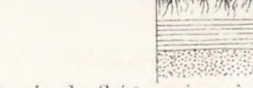
Couche N° 5



Couche N° 6



Couche N° 7



Couche N° 8



Couche N° 9



Couche N° 10



Couche N° 11



Couche N° 12



Couche N° 13



Couche N° 14

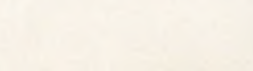
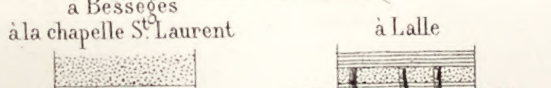


Fig. 6 - Couches de Lalle

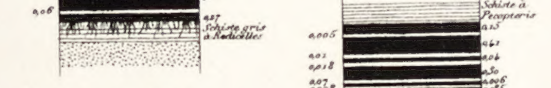
Couche St Yllide à Bessèges



à la chapelle St Laurent



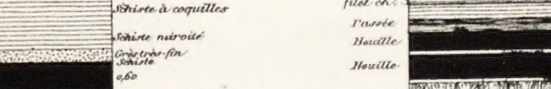
Couche St Henry



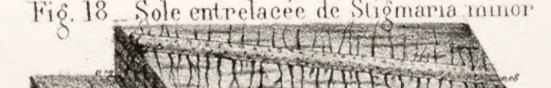
Couche N° 10



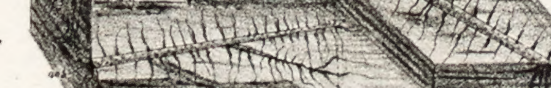
Couche N° 9



Couche N° 8



Couche N° 7



Couche N° 6



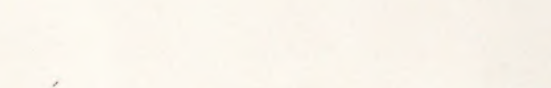
Couche N° 5



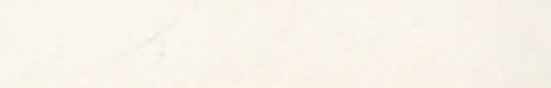
Couche N° 4



Couche N° 3



Couche N° 2



Couche N° 1

Fig. 5 - Couche des schistes miroités du Mas-Bleu



Fig. 17

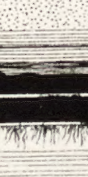
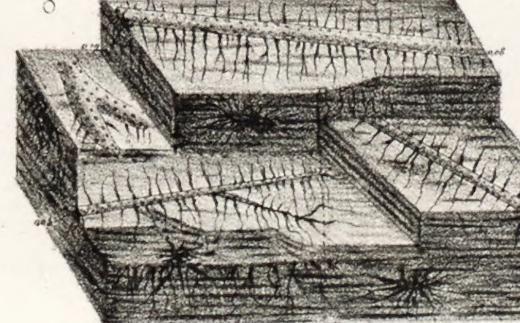
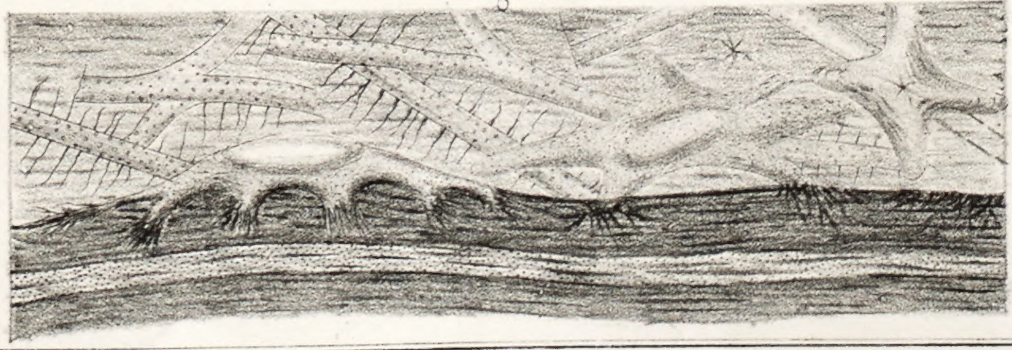


Fig. 18 - Sole entrelacée de Stigmara minor



Molières

Fig. 19



Stigmariopsis - Fig. 20

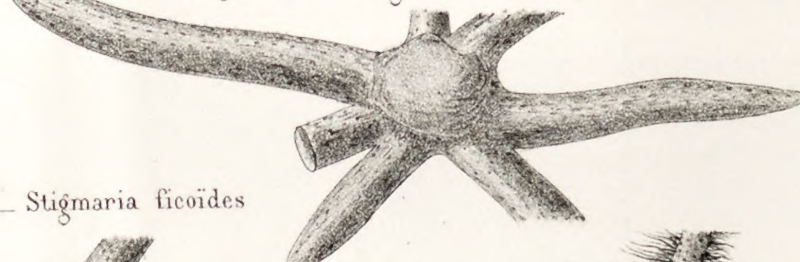


Fig. 21 - Stigmara ficoides

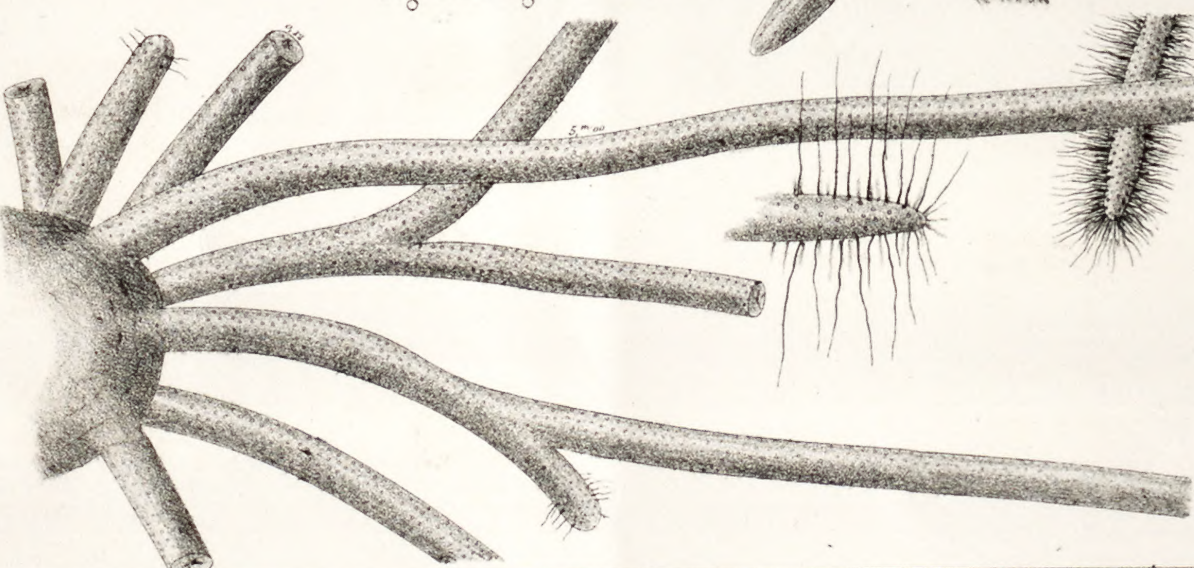
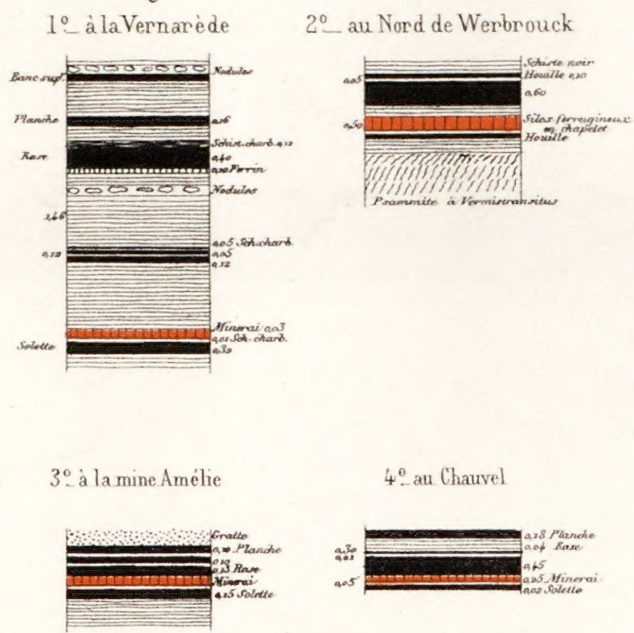


Fig. 2 - Couche Abylon

Fig. 1 - Couche Grand Baume

Fig. 13 - Couche Palmesalade



à la Trouche

à Ricard

à la Trouche

à Ricard

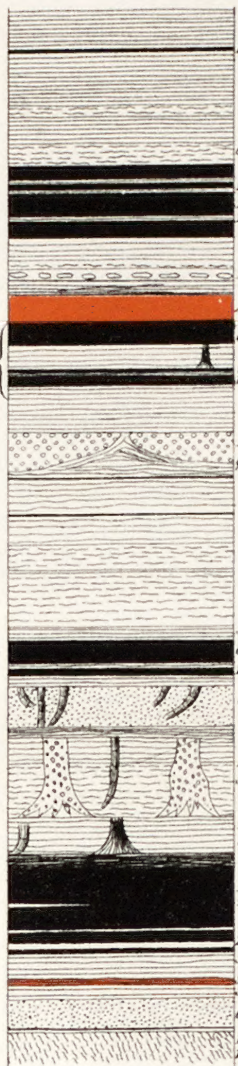
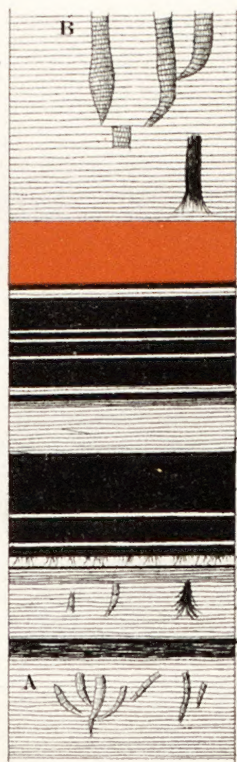
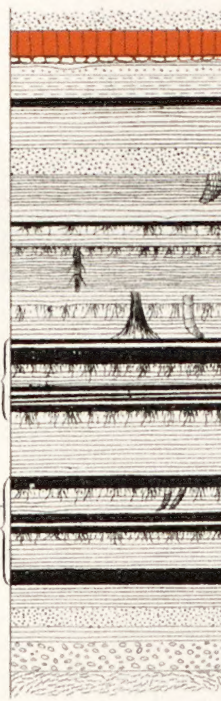


Fig. 7 - Couche St-Augustin

Fig. 6 - Couche Chauvel

Fig. 3 - Couche Pilhouze au Ravin

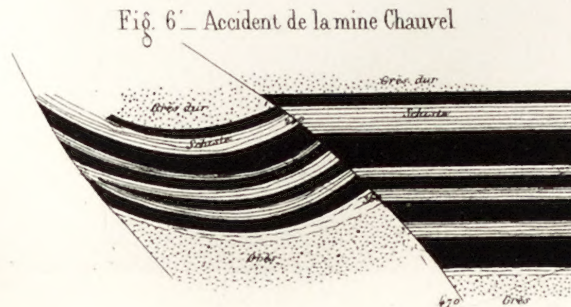
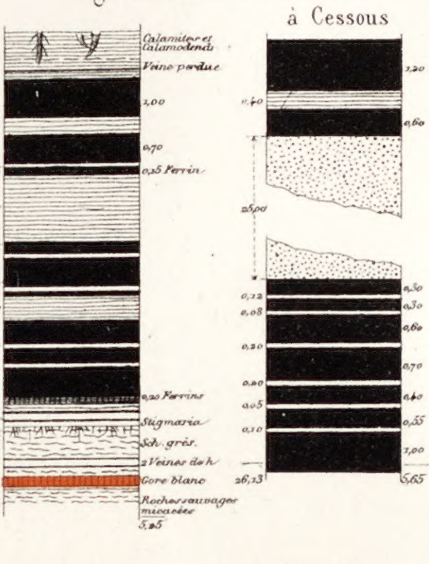
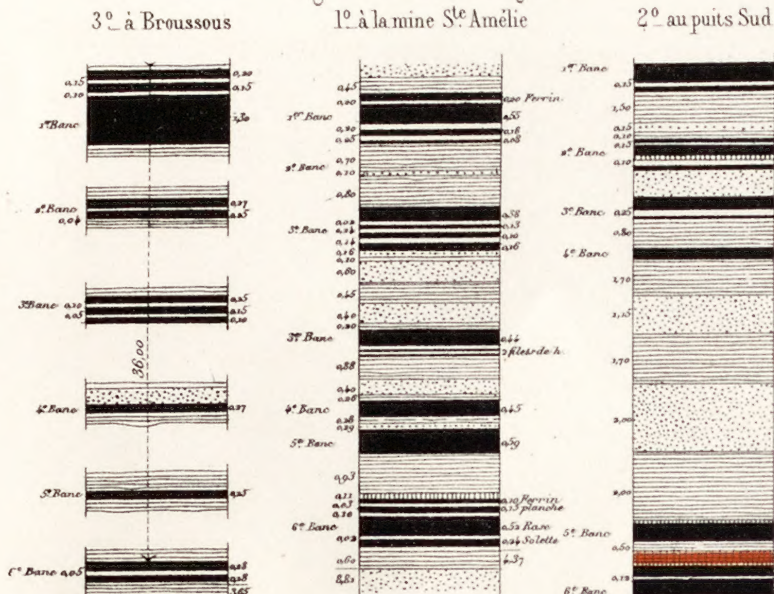


Fig. 8 - Couche des Lavois à la Crouzette

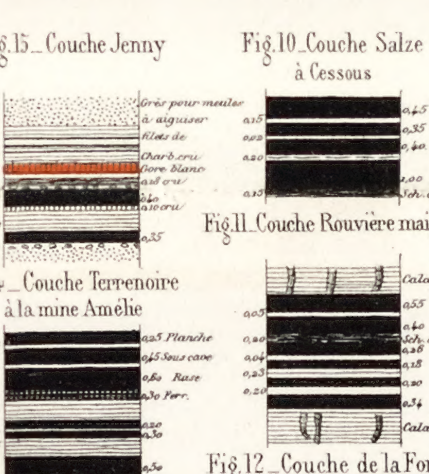
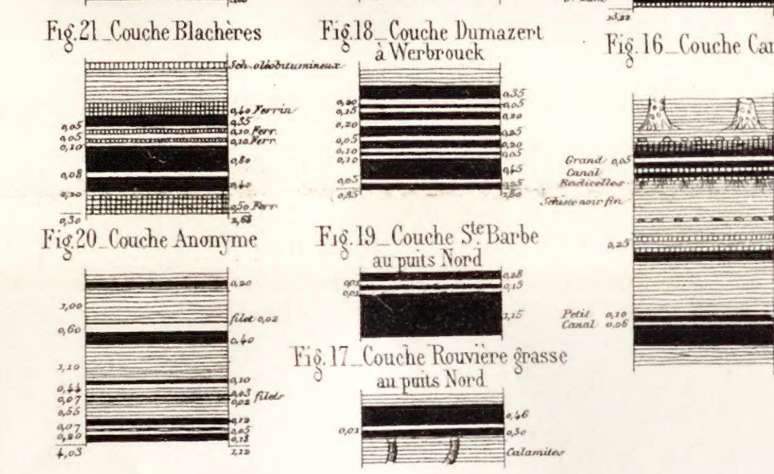


Fig. 8 - Couche des Lavois à la Carrière de l'Eglise

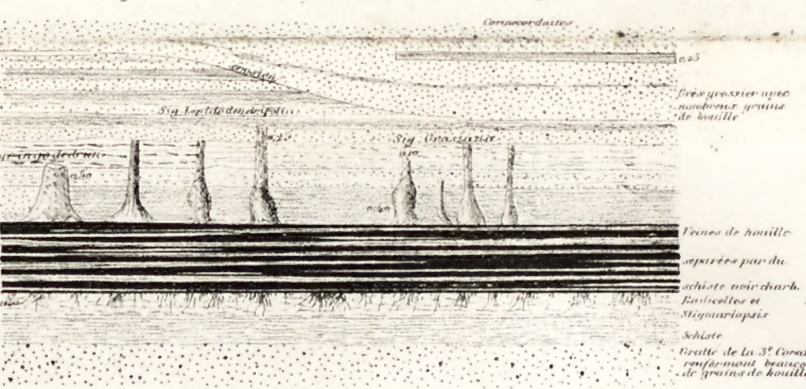


Fig. 22 - Couche de schiste noir à la Trouche

Fig. 9 - Couche de la Crouzette

Fig. 12 - Couche de la Forge

Fig. 4 - Couche de Champelous aux Rosiers

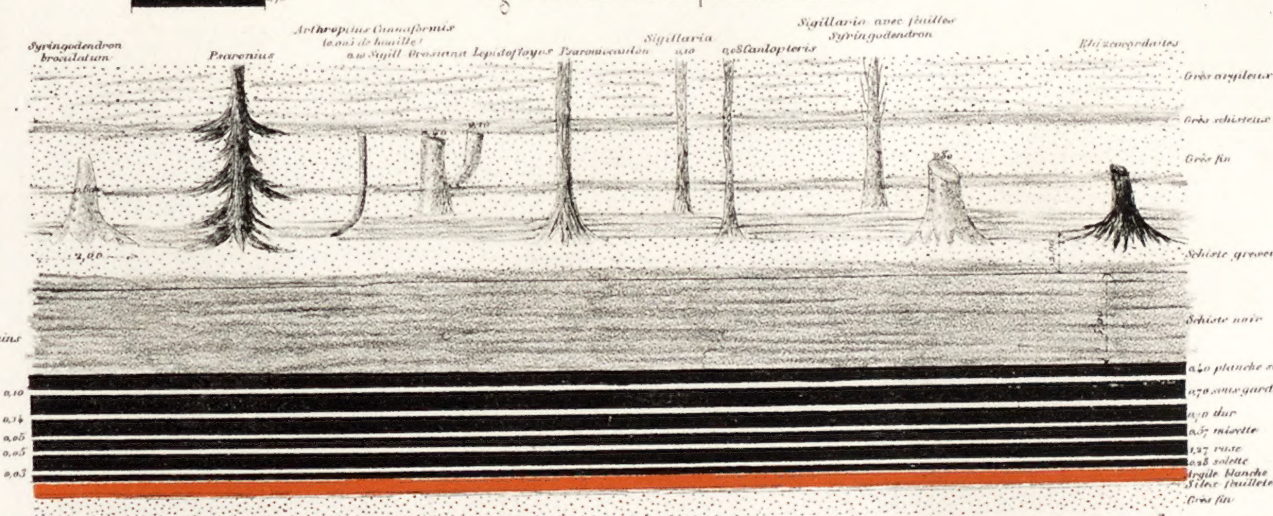
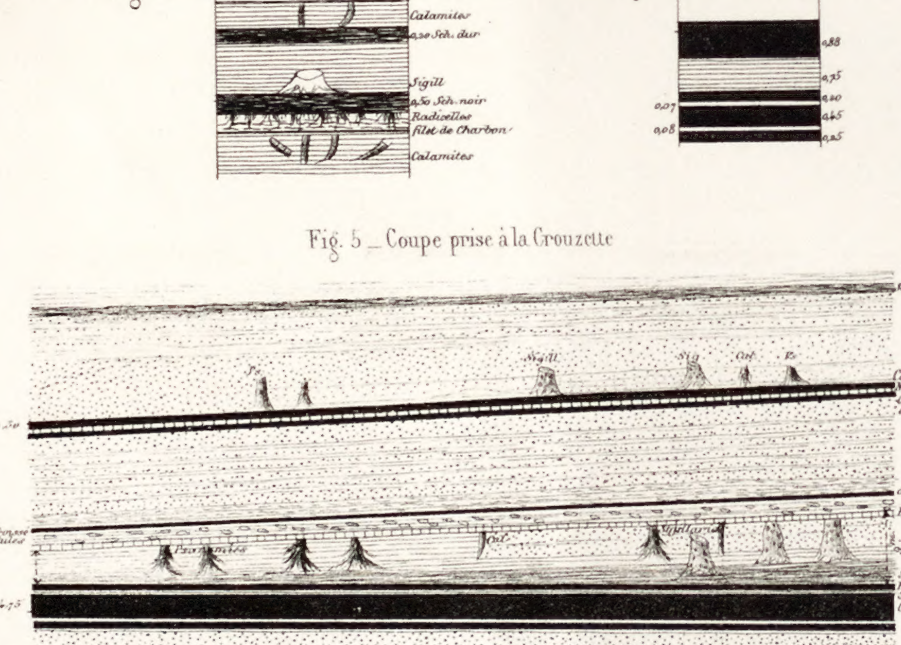


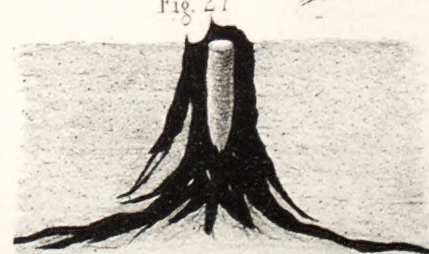
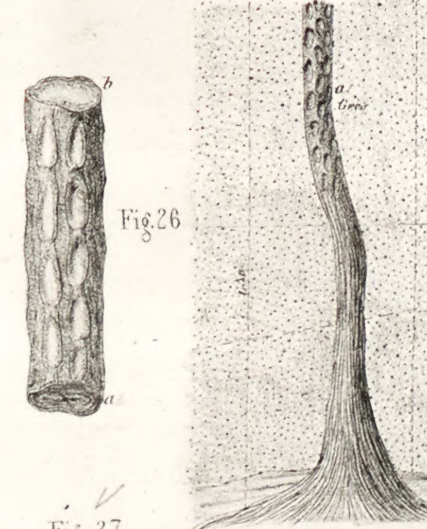
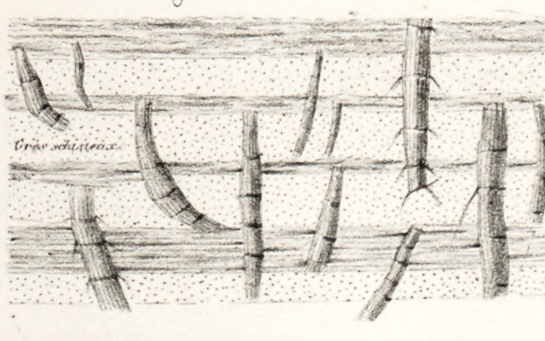
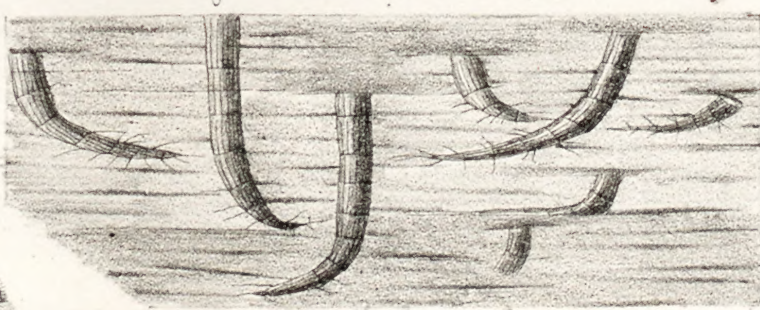
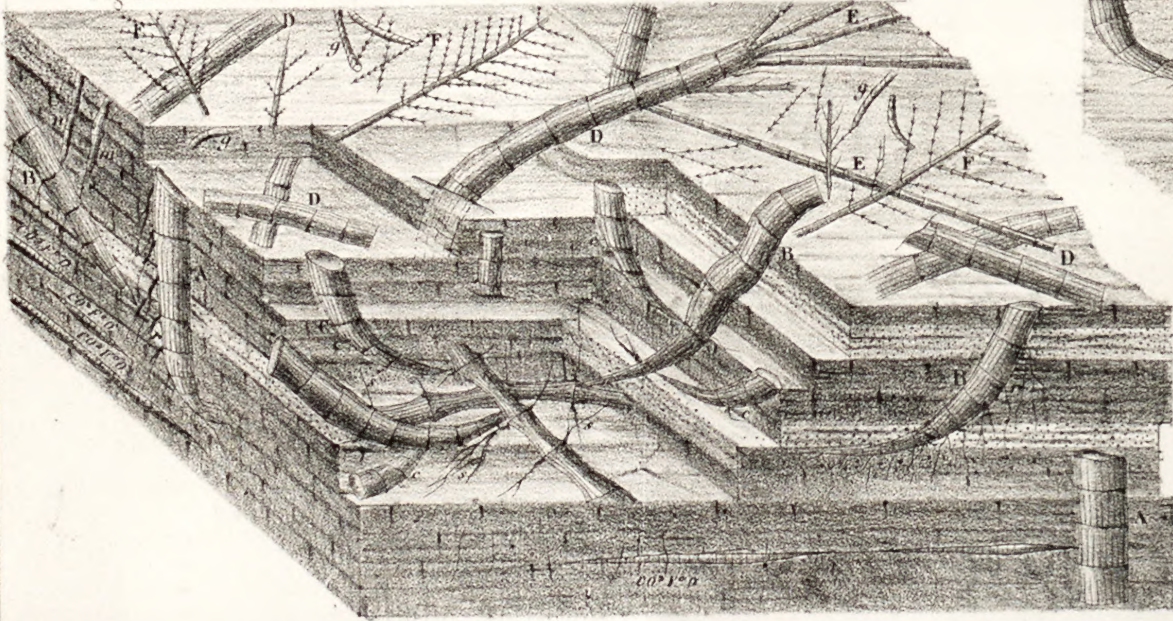
Fig. 23 - Calamites Canaeformis enraciné et Asterophyllites equisetiformis (Ricard)

Fig. 24 - Calamites Sukovii (St-Jean)

Fig. 25 - Calamites Cistii

Fig. 26

Fig. 27





ROCHES PSEUDO-ORGANIQUES

Fig. 1, 2. *Vermis transitus*. Fig. 3. Manière dont ils s'échangent et se pénètrent. Fig. 4. *Bacillarites* Stur.
 Fig. 5, 6, 7. *Bacillarites* sur empreintes végétales. Fig. 8. Formes grossières, triées. Fig. 9. Cristaux tordus et contournés.
 Fig. 10. Structure de *Bacillarites*. Fig. 11. Argilophyre à *Bacillarites* dans la Houille. Fig. 12, 12', 12'', 12''', *Gaudrya trivalvis* n. sp.
 Fig. 13. Graines variées sur une plaque de schiste. Fig. 14, 14'. *Tripterocarpus arcuatus*, n. sp.



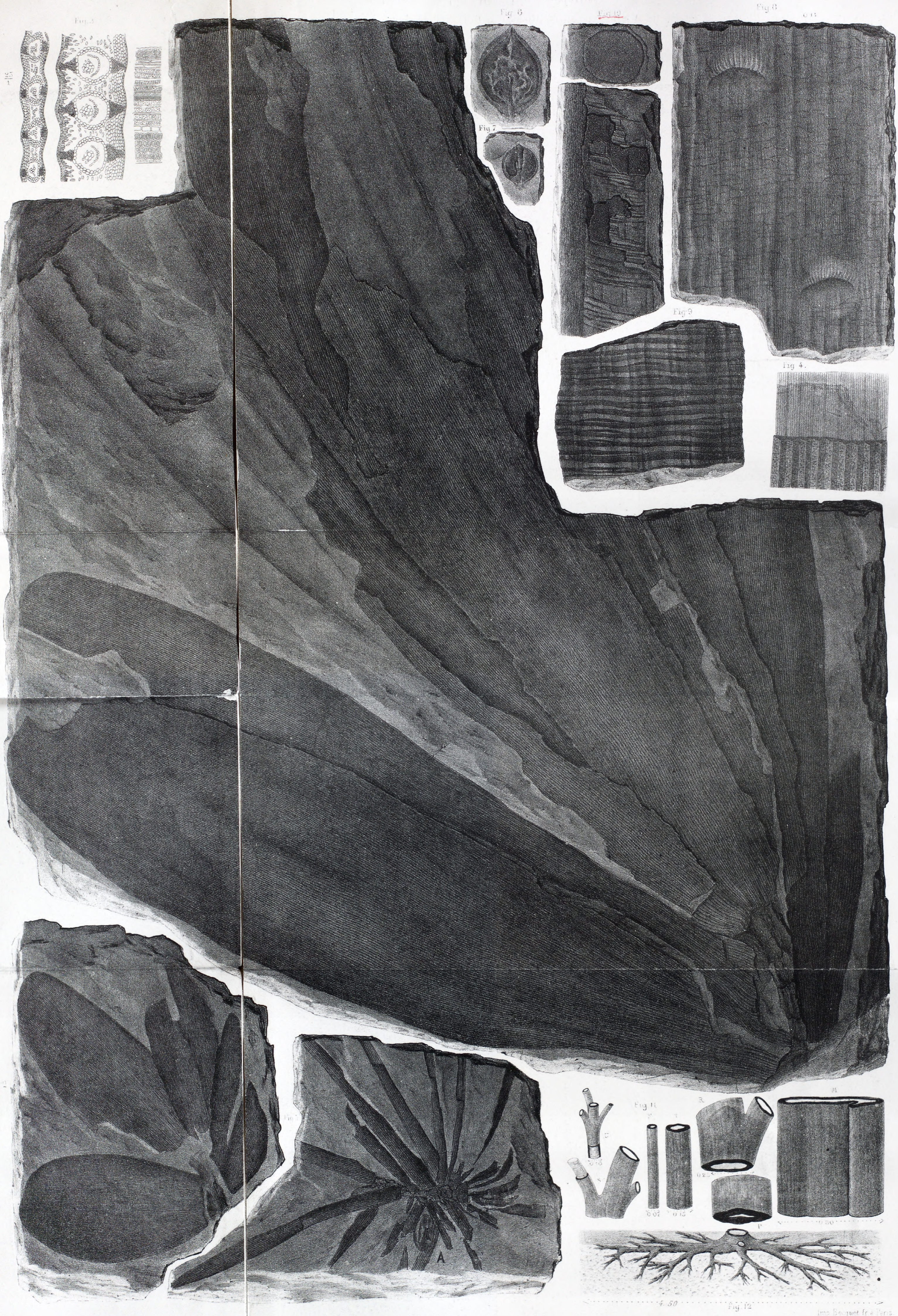
Fig. 1. *Pecopteris unita*, Br. — Fig. 2, 3, 4 et 5. *Parapecopteris nevropteridis*, n. sp.
 Fig. 6. *Adiantites recentior*, n. sp. — Fig. 7. *Sigillaria Lepidodendrifolia*, Br.
 Fig. 8. *Botryoconus* Göp. — Fig. 9. *Stigmaria Minor*, Gein.
 Figs. 10 et 11. *Sigillaria Mauricii*, n. sp. — Fig. 12. *Sphenophyllum filiculme* Lesq.
 Fig. 13. *Bryon crispatum*, Gr.

Photogravure A. Hervier, Paris.



Imp. Becquet fr. Paris.

Fig. 1, 2, *Polypterocarpus*. Fig. 3, 4, *Codonospermum*. Fig. 6, *Rhabdocarpus*. Fig. 5, 7 et 7' *Carpolithes*.
 Fig. 8, *Samaropsis*. Fig. 9, *Gnetopsis*. Fig. 10, *Cordaianthus*. Fig. 11, *Nöggerathia*.
 Fig. 12, 13, *Dicranophyllum tripartitum*, n. sp. Fig. 14, 15, 16, *Cordaites*. Fig. 17, *Lepidoflojos laricinus*, Stern.
 Fig. 18, *Psaronius Alesiensis*, n. sp. Fig. 19, *Taeniopteris Ardesica*, n. sp. Fig. 20, *Pecopteris gracillima*, n. sp.
 Fig. 21, 22, *Crossothea aequabilis*. Fig. 23, *Hawlea stellata*. Fig. 24, *Stichocarpus*. Fig. 25, 26, *Parapecopteris nevropteridis*, n. sp.
 Fig. 27, *Unio*.

Fig. 1, 2, 3. *Cordailes lingulatus* Gr.Fig. 4. *Cordailes crassifolius*, Gr.Fig. 5. *Poa-Cordailes linearis*, Gr.(A. *Carpolithes disciformis*, Stern)Fig. 6. *Cordailex* *excelsus*, n. sp.Fig. 7. *Cordailex* *Guthieri*, Gein.Fig. 8. *Cordailex* *distans*, n. sp.Fig. 9. *Artisia angularis*, Daw.Fig. 10. *Cormocordailes*.Fig. 11. *Rhizocordailes*.Fig. 12. *Artisia octogona*.

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Fig. 1. *Doleropteris pseudopeltata*, Gr. — Fig. 2. *Discostachys Cebennensis*, n.sp.
 Fig. 3. *Pachytesta gigantea*, Br. — Fig. 4. *Noggerathia Graffini*, n.sp.
 Fig. 5. *Cannophyllites simplicinervis*, n.sp.



Fig. 1. *Caulopteris peltigera* Br. cf. — Fig. 2. *Protopteris Cebennensis* n. sp.
 Fig. 3. *Lepidodendron dilatatum* n. sp.
 Fig. 4, 5, 6. *Pseudosigillaria monostigma* Lesq. — Fig. 7, 8. *Ps. dimorpha* n. sp.
 Fig. 10. *Ps. lepidendroides*.

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Fig. 1. *Syringodendron cyclostigma*, Br. et *Sigillaria Mauricii*, Gr. Fig. 2. *Syringodendron defluens*, n. sp.
 Fig. 3. *Syringodendron bioculatum*, Gr. Fig. 4, 5. *Sigillaria nemosensis*. Fig. 6. *Sigillaria Cortei*, Br.
 Fig. 7. *Sigillaria Candollei*, Br. Fig. 8, 9. *Sigillaria formosa*, n. sp. Fig. 10. *Sigillaria tessellata*, Br.
 Fig. 11, 12. *Sigillaria Grasiana*, Br.



Imp. Besquet & Fils

Fig. 1, 2, 5, Tiges, rameaux, épis et feuilles de *Sigillaria Brardii*, Br.

Fig. 4, *Catenaria decora*, stern. et *Sigillaria Brardii*, Br. en connexion.

Fig. 5, *Sigillariostrobus pedicellifolius*, n. sp. Fig. 6, *Sigillaria Defrancei*, Br. v. *delineata*.

Fig. 7, *Sigillaria minutissima*, n. sp. *Sig. Mauricii*, n. sp.

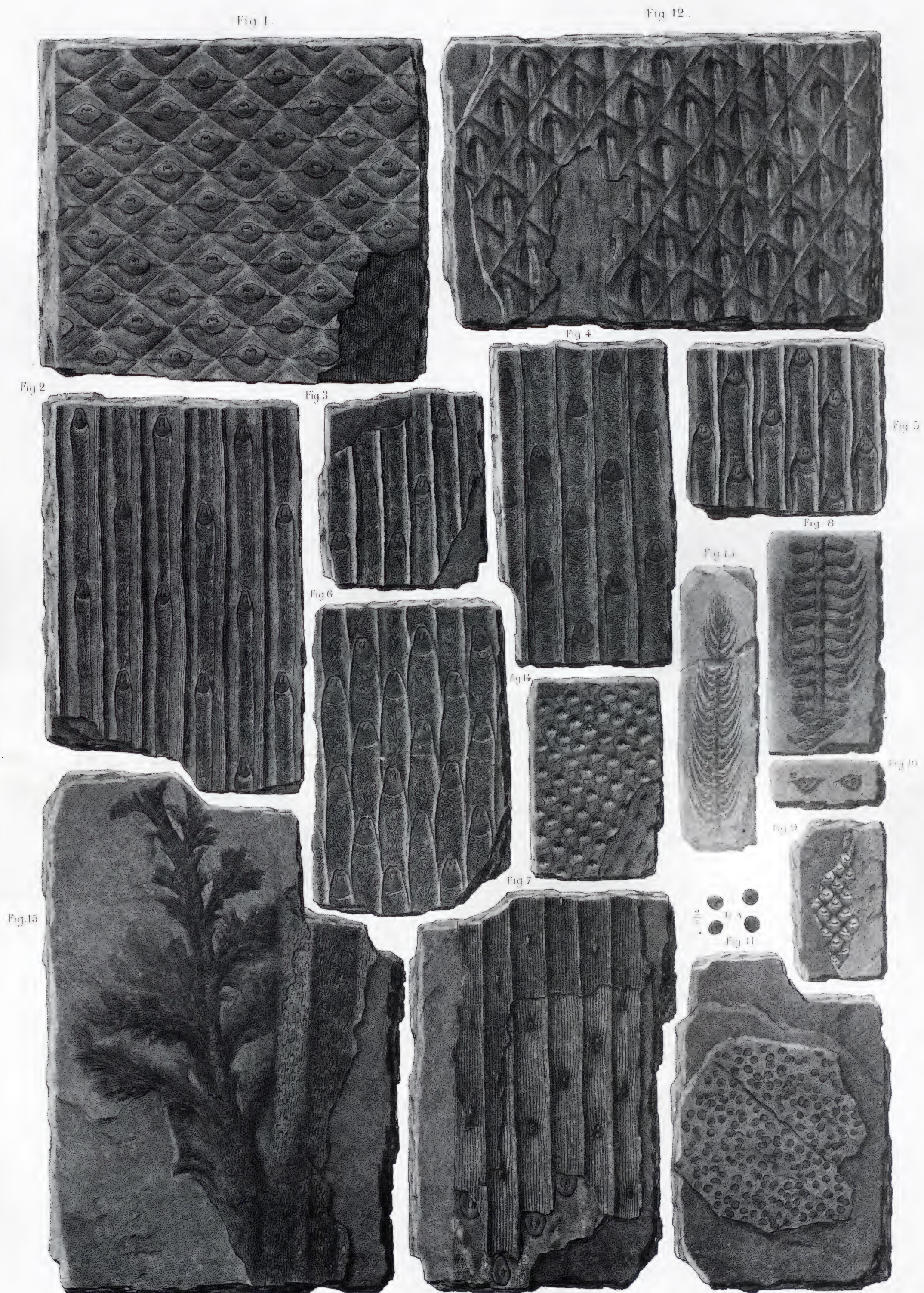
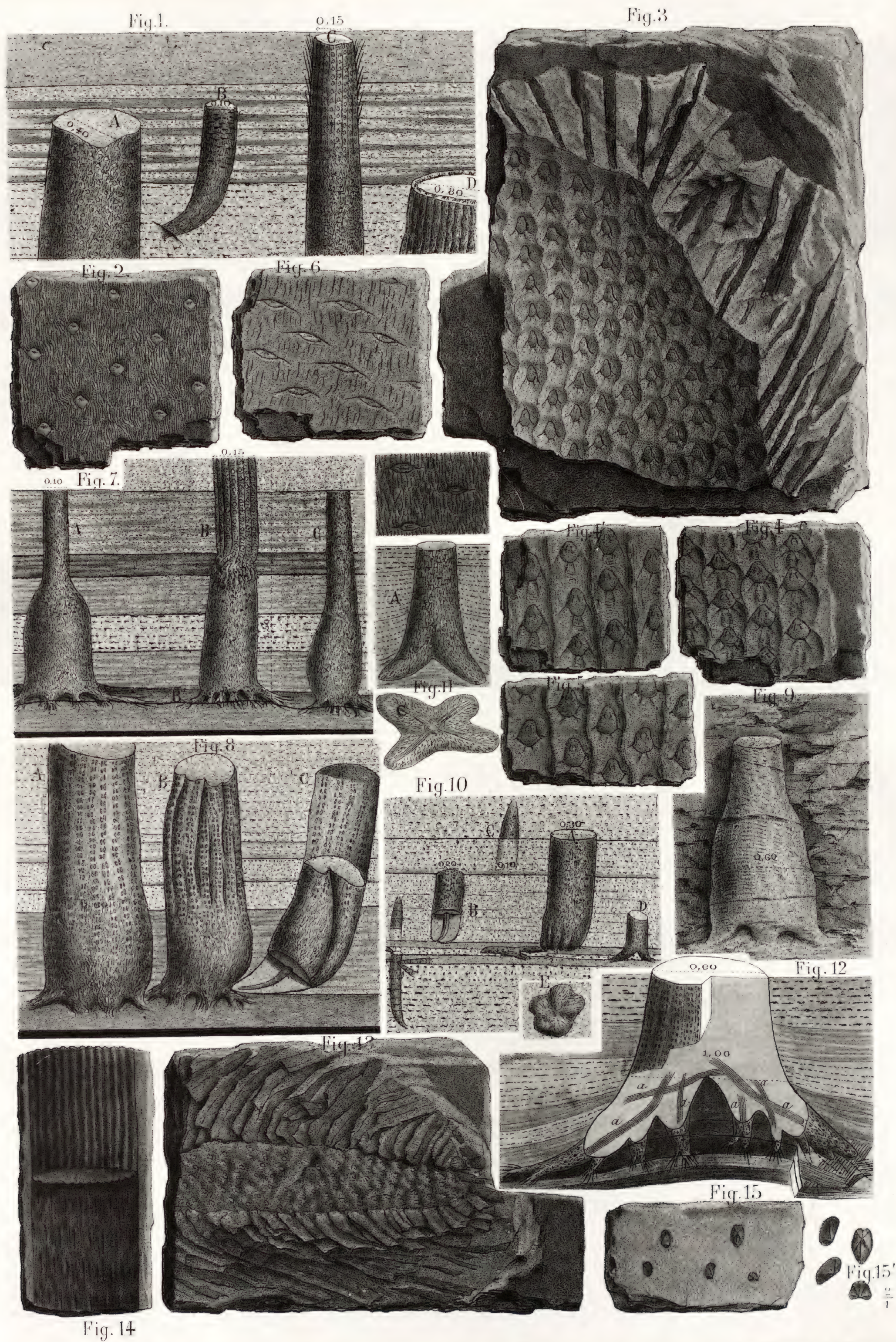


Fig. 1. *Sigillaria quadrangulata*, Schlö. — Fig. 2. *Sigillaria rugosa*, Br. — Fig. 3, 4, 5. *Sigillaria scutellata*, Br. — Fig. 6. *Sigillaria Sillimanni*, Br. — Fig. 7. *Syringodendron Brongniarti*, Geniz. et *Sigillaria Lepidodendrifolia*, Br. — Fig. 8, 9, 10. *Sigillariostrobus mirandus*, Gr. — Fig. 11. *Flegmingites*. — Fig. 12. *Lepidodendron quadrangulatum*. — Fig. 13. *Lepidodendron herbaceum*. — Fig. 14. *Stigmara Anglica*, Stern. — Fig. 15. *Schizopteris*.



FORÊTS FOSSILES DE SIGILLAIRES

Imp. Bouquet & Pons

Fig. 1A, Fig. 2. *Sigillaria Grasiana*, Br. — Fig. 1.C. Fig. 7B. Fig. 3, 4, 4' et 5. *Sigillaria Mauricii*, n.sp.Fig. 8 et 12. *Syringodendron bioculatum*, n.sp. — Fig. 7 B, Fig. 13. *Stigmara Eveni*, Lesq.Fig. 15. *Leaia Leidyi*, Jones. Fig. 10, 11, 12. premier, deuxième et troisième stades de développement des Sigillaires.



ARTHROPITUS

- Fig. 1. *Calamophyllites* Geinitzi, Gr. Fig. 2, 3. *C. Varians* Germ. — Fig. 4, 5, *Asterophyllites densifolius*, Gr.
 Fig. 6, 7, 8. *Arthropitus* Parrani, n. sp. — Fig. 13, 14, *Calamites major*, Weiss.
 Fig. 11. Forêt fossile de *Calamites Caninaeformis*, Schlot et pachyderma, Br. — Fig. 12. Forêt fossile de *Calamites* & *Arthropitus Caninaeformis*.
 Fig. 15, *Calamocladus descipiens* n. sp.

Fig. 9. *Arthropitus pseudo-cinnatus* (Schlot.) n. sp. (au 100 x 2/3)
 Fig. 10. *Calamites dentatus* L. folios. n. sp. (au 100 x 2/3)



CALAMODENDRON

Fig. 1, 2. *Calamites Cistii*, Br. — Fig. 3, 4, 5, 6. *Calamites foliosus*, Gr.

Fig. 7, 8, 9, 10. *Calamoclados parallelinervis*, n. sp. — Fig. 11. v. *fluctuans*. — Fig. 12. *Calamoclados penicillifolius*, n. sp.

Fig. 13, 14. *Calamostachys vulgaris*, n. sp. — Fig. 15. *Calam. capillamentis*. — Fig. 16. *Calamostachys tenuissima*, n. sp.

Fig. 17. *Calam. squamosa*. — Fig. 18. *Calamostachys Marii*, n. sp.



Imp. Berquet fr. Paris.

Calamocladus frondosus, n.sp.



Imp. Becquet fr. Paris

Fig. 1. *Arthropites*. — Fig. 2. *Calamodendrea rhizobola*, Gr. — Fig. 3. *Calamites suckowii*, Br.
 Fig. 4. *Asterophyllites equisetiformis*, Schl. — Fig. 5. *Calamocladus*. — Fig. 6. *Annularia elegans*, n. sp. — Fig. 7. *Bruckmannia fertilis*, n. sp.
 Fig. 8. *Macrostachya*. — Fig. 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19. *Autophyllites furcatus*, n. sp.
 Fig. 20. *Sphenophyllum nageli*, n. sp. — Fig. 21. *Sphen. papillionaceum*, n. sp. — Fig. 22. *Sph. capillaceum*, Weiss.

Fig.1



Fig.2



Fig.3

Fig.4



Imp. Bouquet, B. & P. 1860

Fig. 1. *Megaphytum insigne*, Lesq. — Fig. 2. *Meg. didymogramma*, Gr.
 Fig. 3. *Megaphytum anomalum*, n.sp. — Fig. 4. *Caulopteris minor*, Sch.

Fig. 10.



Imp. Becquet fr. a Paris.

Fig. 1. *Callipteridium ovatum*, Br. — Fig. 2, 3, 4. *Alethopteris gigas*, Gutb., v. *densifolium*, Br. — Fig. 5, 6, 7. *Odontopteris Reichiana*, Gutb. — Fig. 8, 9. *Aulacopteris vulgaris*, Gr. — Fig. 10. *Schizopteris rhipis*, Gr.

Br. ? or R.
Neuropteris



Imp. Becquet fr. à Paris.

Fig. 1. *Pecopteris truncata*, Grm. — Fig. 2, 3. *Pecopteris Platoni*, Gr. — Fig. 4. *Pecopteris abbreviata*, Br.
Fig. 5, 6. *Alethopteris magna*, n. sp.

Fig. 3.

Fig. 2.

Fig. 1.

Fig. 4.

4A

Fig. 5.

Fig. 6.

Imp. Becquet fr. à Paris.

Fig. 1, 2. *Nevropteris Cordata*, Br. — Fig. 3, 4, 5, 6, *Alethopteris aquilina*, Br.

Fig. 1.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 2.

Fig. 2 A.

Fig. 7.



Fig. 1. *Pseudosigillaria dimorpha*, n. sp. — Fig. 2. *Nevropteris Guardinis*. — Fig. 3. *Spirangium ventricosum*.
 Fig. 4. *Estheria Cebennensis*. — Fig. 5. *Anthracomya unioides*. — Fig. 6. *Etoblattina*, Scudder. — Fig. 7. Galeries d'insecte.